

Utah Division of Air Quality New Source Review Section

Form 14 Concrete Batch Plants

Company	
Site/Source_	 _
Date	

Process Information							
Type of batching: □ Wet (Rotary mixing trucks)	Raw materials that will be handled: □ coarse aggregate □ portland cement						
☐ Dry (Flat bed trucks with segregated material	washed						
compartments) ☐ Central mix (Batching at plant site)	□ fine aggregate □ fly ash washed □ lime						
☐ Other (specify)	□ admixtures □ other (specify)						
Maximum plant production rate and operating hours: yd³/yr	Water sprays will be used at the following locations: Yes No						
yd³/hr	□ Stockpiles □ □						
hrs/yr	☐ Aggregate bins ☐ ☐						
hrs/day	☐ Conveyor transfer points ☐ ☐						
Cement received by: □ Rail Car	Portland cement is transferred from delivery vehicle to cement storage silo by (give maximum capacity in lb/hr):						
☐ Truck	☐ Pneumatic conveying system						
☐ Other (specify)	□ Elevator						
(1)	□ screw						
	□ bucket						
	□ Other (specify)						
7. A baghouse is used on the cement silo vent:	Cement is transferred from cement storage silo to cement surge hopper by (maximum feed rate lb/hr):						
☐ Yes (submit Form 10)	☐ Pneumatic transfer system						
□ No	☐ Gravity feed						
	□ Screw Conveyor						
	□ Bucket elevator						
	□ Other (specify)						

Form 14 - Concrete Batch Plants (Continued)

9. Cement weigh hopper is loaded by: Gravity feed Pneumatic conveyor Screw conveyor Other (specify)	 10. The cement weigh hopper will be vented to the: Cement silo Baghouse (submit Form 10) Discharge spout Other			
11. Aggregate received by: Rail car Truck Other (specify)	12. If aggregate storage bins are used, how is aggregate transferred to storage bin: Covered conveyor belt Length: Uncovered conveyor belt Length: Other:			
13. Fly ash received by: Rail car Truck Other (specify) 15. Admixture ingredients:	14. Fly ash is transferred from deliver vehicle to storage (maximum capacity in lb/hr): □ Pneumatic conveying system □ Elevator □ screw □ bucket 16. Admixtures received by: □ Rail car			
	□ Truck □ Other (specify)			
17. Admixtures are stored in:	18. Admixtures are transferred from delivery vehicle to storage (maximum capacity in lb/hr): □ Pneumatic conveying system □ Elevator (screw)			
19. The batch drop point to the truck or central mixer will be controlled to prevent dust emissions by: ☐ Shroud with exhaust air suction to baghouse (submit Form 10 also) ☐ Flexible discharge spout ☐ Other type of control device (explain in detail)				

Form 14 - Concrete Batch Plants (Continued)

20. Equipment									
Qty	Туре	Specifications							
	Wet Batch Plants	Capacity yd³/hr	Manufacturer	Model	Serial Number				
	Central Mix Batch Plant	Capacity yd³/hr	Manufacturer	Model	Serial Number				
	Front End Loader	Usagehr/day	Horsepower						
	Hoppers	Controlled by:							
	Aggregate Conveying System	Covered: Length ft	Uncovered: Length ft		Other:				
	Cement Conveying System	Pneumatic:lb/hr	Screw lb/hr Bucket lb/hr	Other:					
	Elevators	Screw lb/hr	Bucket: lb/hr	Other:					
	Fly Ash Storage Silos	Volumeft ³	Controlled by:	Specifications:					
	Cement Storage Silos	Volumeft ³	Controlled by:	Specifications:					
	Other Storage Silos	Material:	Volume ft ³	Controlled by:					
	Coarse Aggregate Storage Piles	Size:yd ³							
	Fine Aggregate Storage Piles	Size:yd ³							
	Other Storage Piles	Material:	Size:yd ³						
	Storage Bins	Material:	Size: ft ³						
	Mixers	Volume:yd ³							
	Generators	Size:	Fuel:	Hrs/day:	Days/yr:				
	Emissions Calculations (PTE)								
21. C	21. Calculated emissions for this device								
	PM ₁₀ Lbs/h		NO _x Lbs/hr						
	SO _x Lbs/hr Tons/yr VOCLbs/hr Tons/yr								
	HAPsLbs/hr (speciate)Tons/yr (speciate)								
Submit calculations as an appendix.									

Instructions Form 14 - Concrete Batch Plants

NOTE: 1. Submit this form in conjunction with Form 1 and Form 2.

- 2. To relocate a concrete batch plant, which is already permitted submit Form 15b Notice of Temporary Relcation of Portable Equipment.
- 3. Call the Division of Air Quality (DAQ) at **(801) 536-4000** if you have problems or questions in filling out this form. Ask to speak with a New Source Review engineer. We will be glad to help!
- 1. Mark the appropriate box for the kind of batching done at the facility.
- 2. Mark the appropriate box for kind of materials to be used.
- 3. Indicate the plant production rate and operating hours.
- 4. Indicate where water sprays will be used for emission controls.
- 5. How is the cement received?
- 6. How is the cement transferred from delivery vehicle to the silo. Indicate the maximum rate at which it can be unloaded.
- 7. Indicate whether or not a baghouse is used. If yes, also submit Form 10 with this application.
- 8. How is the cement transferred from the solo to the hopper and at what rate?
- 9. How is the cement weigh hopper loaded?
- 10. To where is the cement weigh hopper vented?
- 11. How is the aggregate received?
- 12. How is the aggregate transferred to storage bins?
- 13. How is fly ash received?
- 14. How is fly ash transferred to storage?
- 15. What admixture ingredients are used?
- 16. How are the admixture ingredients received?
- 17. How are the admixture ingredients stored?
- 18. How are admixtures transferred?
- 19. What is the control on the batch drop point to the truck or central mixer? If a baghouse is used, also submit Form 10.
- 20. Indicate the number and type of equipment that will be used in the facility. Give specifications on the individual pieces of equipment. Attach additional sheets of paper, if necessary.
- 21. Supply calculations for all criteria pollutants and HAPs. Use AP42 or Manufacturers data to complete your calculations.